

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows, this listing of claims to replace all prior versions, and listings, of the claims of the above-captioned application:

1. (Cancelled).
2. (Cancelled).
3. (Cancelled).
4. (Cancelled).
5. (Cancelled).
6. (Cancelled).
7. (Cancelled).
8. (Cancelled).

9. (Currently Amended) [The] An appetite suppression [circuit as recited in claim 8.] device for providing electro-acupuncture to the tragus regions of a human, said appetite suppression device comprising:

a controller adapted to produce an electrical signal;

a plurality of electrodes in electrical communication with said controller, said electrodes being adapted to deliver said signal to the tragus regions of the human; and

wherein:

said electrical signal is biphasic;

said controller comprises a waveform conditioning circuit;

said signal conditioning circuit comprises a variable threshold detector circuit; and

said variable threshold detector circuit comprises an operational amplifier circuit having a first and a second input, said second input being in communication with the output from a resistive divider network fed by the output of a peak detector circuit, the input to the peak detector circuit being in communication with said first input to said operational amplifier circuit.

10. (Cancelled).

11. (Cancelled).

12. (Cancelled).

13. (Cancelled).

14. (Currently Amended) [The] An appetite suppression device [as recited in claim 13,] for providing electro-acupuncture to the tragus regions of a human, said appetite suppression device comprising:
a controller adapted to produce an electrical signal;
a plurality of electrodes in electrical communication with said controller, said electrodes being adapted to deliver said signal to the tragus regions of the human; and

wherein:

said electrical signal is biphasic;

said controller comprises a waveform generating circuit;

said waveform generating circuit comprises a plurality of astable multivibrators; and

the output of a first astable multivibrator modulates the output of a second astable multivibrator.

15. The appetite suppression device as recited in claim 14, wherein said modulation of the output of said second astable multivibrator by the output of said first astable multivibrator is at a depth greater than 95%.

16. The appetite suppression device as recited in claim 14, wherein the frequency of the output of said first astable multivibrator is variable.

17. The appetite suppression device as recited in claim 16, wherein said frequency of the output of said first astable multivibrator is variable from between approximately four Hertz and approximately 40 Hertz.

18. The appetite suppression device as recited in claim 17, wherein the frequency of the output of said second astable multivibrator is approximately 100 Hertz.

19. (Cancelled).

20. (Currently Amended) [The] An appetite suppression device [as recited in claim 19.] for providing electro-acupuncture to the tragus regions of a human, said appetite suppression device comprising:

a controller adapted to produce an electrical signal;

a plurality of electrodes in electrical communication with said controller, said electrodes being adapted to deliver said signal to the tragus regions of the human; and

wherein:

said electrical signal is biphasic;

said controller comprises an output circuit, said output circuit comprising:

a current amplifier; and

a step-up transformer, the output of said current amplifier being in electrical communication with the primary of said step-up transformer; and

the secondary of said step-up transformer is limited in voltage to approximately 24 volts.

21. (New) The appetite suppression device as recited in claim 9, wherein said electrodes are incorporated into a headset.

22. (New) The appetite suppression device as recited in claim 21, wherein said headset is adjustable in size.

23. (New) The appetite suppression device as recited in claim 9, wherein said waveform conditioning circuit comprises a small signal amplifier.

24. (New) The appetite suppression device as recited in claim 23, wherein said small signal amplifier comprises an operational amplifier circuit.

25. (New) The appetite suppression device as recited in claim 14, wherein said electrodes are incorporated into a headset.

26. (New) The appetite suppression device as recited in claim 25, wherein said headset is adjustable in size.

27. (New) The appetite suppression device as recited in claim 14, wherein said controller comprises a waveform conditioning circuit.

28. (New) The appetite suppression device as recited in claim 27, wherein said waveform conditioning circuit comprises a small signal amplifier.

29. (New) The appetite suppression device as recited in claim 28, wherein said small signal amplifier comprises an operational amplifier circuit.

30. (New) The appetite suppression device as recited in claim 27, wherein said signal conditioning circuit comprises a variable threshold detector circuit.

31. (New) The appetite suppression device as recited in claim 27, wherein said controller further comprises a waveform generating circuit.

32. (New) The appetite suppression device as recited in claim 20, wherein said electrodes are incorporated into a headset.

33. (New) The appetite suppression device as recited in claim 32, wherein said headset is adjustable in size.

34. (New) The appetite suppression device as recited in claim 20, wherein said controller comprises a waveform conditioning circuit.

35. (New) The appetite suppression device as recited in claim 34, wherein said waveform conditioning circuit comprises a small signal amplifier.

36. (New) The appetite suppression device as recited in claim 35, wherein said small signal amplifier comprises an operational amplifier circuit.

37. (New) The appetite suppression device as recited in claim 34, wherein said signal conditioning circuit comprises a variable threshold detector circuit.

38. (New) The appetite suppression device as recited in claim 37, wherein said variable threshold detector circuit comprises an operational amplifier circuit having a first and a second input, said second input being in communication with the output from a resistive divider network fed by the output of a peak detector circuit, the input to the peak detector circuit being in communication with said first input to said operational amplifier circuit.

39. (New) The appetite suppression device as recited in claim 34, wherein said controller further comprises a waveform generating circuit.

40. (New) The appetite suppression device as recited in claim 20, wherein said controller comprises a waveform generating circuit.

41. (New) The appetite suppression device as recited in claim 40, wherein said waveform generating circuit comprises an astable multivibrator.

42. (New) The appetite suppression device as recited in claim 41, wherein said waveform generating circuit comprises a plurality of astable multivibrators.

43. (New) The appetite suppression device as recited in claim 42, wherein the output of a first astable multivibrator modulates the output of a second astable multivibrator.

44. (New) The appetite suppression device as recited in claim 43, wherein said modulation of the output of said second astable multivibrator by the output of said first astable multivibrator is at a depth greater than 95%.

45. (New) The appetite suppression device as recited in claim 43, wherein the frequency of the output of said first astable multivibrator is variable.

46. (New) The appetite suppression device as recited in claim 45, wherein said frequency of the output of said first astable multivibrator is variable from between approximately four Hertz and approximately 40 Hertz.

47. (New) The appetite suppression device as recited in claim 46, wherein the frequency of the output of said second astable multivibrator is approximately 100 Hertz.